

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1498488

Luminaire Tested: MAE-G-2-120-2LO-STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

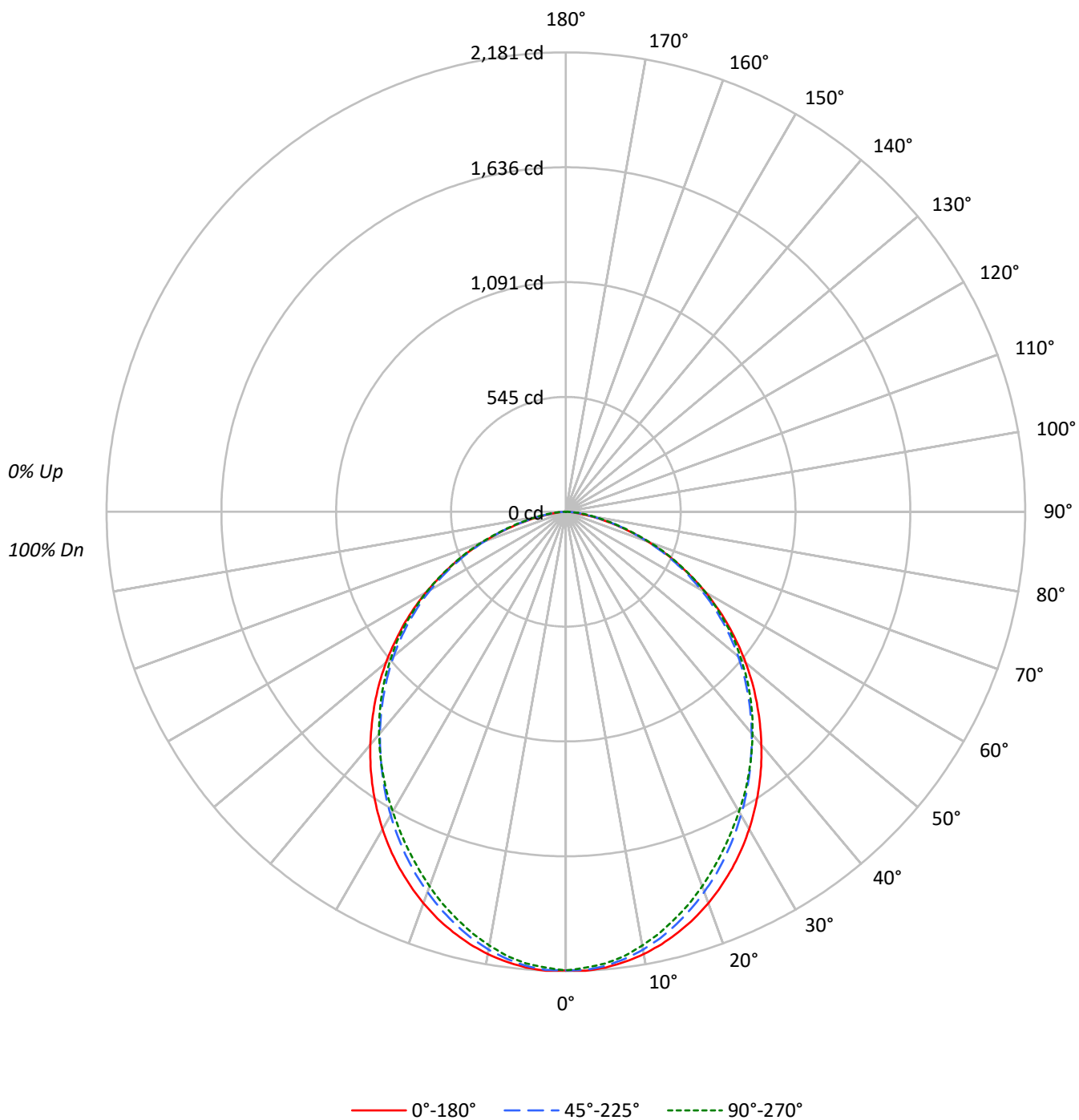
Lumens per Lamp: N/A
Luminaire Lumens: 5255.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	98	90	84	79	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5859	5859	5859
5°	5867	5846	5815
10°	5827	5769	5714
15°	5757	5648	5573
20°	5665	5501	5420
25°	5547	5341	5255
30°	5409	5168	5107
35°	5252	4990	4976
40°	5072	4822	4846
45°	4879	4652	4709
50°	4667	4469	4545
55°	4423	4257	4353
60°	4130	3997	4120
65°	3762	3664	3789
70°	3257	3237	3344
75°	2603	2689	2758
80°	1777	1967	2089
85°	932	1396	1834

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4879 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	3.9
10°-20°	571.2	10.9
20°-30°	832.1	15.8
30°-40°	961.5	18.3
40°-50°	956.4	18.2
50°-60°	821.7	15.6
60°-70°	576.8	11.0
70°-80°	275.1	5.2
80°-90°	55.6	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1607.8	30.6
0°-40°	2569.4	48.9
0°-60°	4347.5	82.7
0°-90°	5255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2177	2177	2177	2177	2177	
5°	2172	2165	2164	2150	2153	206
15°	2066	2051	2028	2000	2001	582
25°	1868	1842	1799	1770	1770	860
35°	1599	1564	1519	1508	1515	999
45°	1282	1249	1222	1229	1238	989
55°	943	915	907	921	928	842
65°	591	574	575	588	595	584
75°	250	244	259	264	265	269
85°	30	35	45	55	59	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2177.2	2177.2	2177.2	2177.2	2177.2
2.5°	2181.3	2175.7	2177.2	2165.9	2166.4
5°	2172.0	2165.1	2164.1	2149.5	2152.8
7.5°	2155.3	2146.8	2141.6	2124.5	2127.2
10°	2132.4	2121.3	2111.2	2089.8	2091.0
12.5°	2102.8	2089.6	2073.4	2048.2	2049.8
15°	2066.3	2050.7	2027.5	2000.1	2000.6
17.5°	2025.7	2008.0	1976.9	1947.4	1949.9
20°	1978.1	1957.8	1921.1	1890.5	1892.7
22.5°	1925.1	1901.7	1862.7	1831.8	1831.9
25°	1868.2	1841.9	1798.8	1769.7	1770.0
27.5°	1806.7	1777.3	1732.3	1705.2	1707.1
30°	1740.6	1709.1	1663.1	1640.4	1643.5
32.5°	1670.9	1638.1	1592.6	1575.9	1581.6
35°	1598.7	1563.5	1519.1	1508.4	1514.8
37.5°	1523.2	1488.4	1446.4	1441.6	1448.2
40°	1443.9	1410.2	1372.7	1371.9	1379.4
42.5°	1363.6	1330.9	1298.3	1301.7	1309.8
45°	1282.0	1248.9	1222.3	1228.9	1237.5
47.5°	1200.2	1167.5	1146.2	1155.3	1163.1
50°	1114.8	1084.3	1067.5	1078.6	1085.6
52.5°	1027.8	999.4	988.1	1000.9	1010.8
55°	942.7	915.4	907.4	920.7	927.8
57.5°	854.9	831.6	826.2	839.2	846.8
60°	767.4	745.5	742.6	757.0	765.5
62.5°	678.8	659.0	659.5	673.6	680.7
65°	590.8	573.9	575.4	587.9	595.0
67.5°	503.4	488.3	493.4	507.6	511.5
70°	413.9	402.0	411.4	422.7	425.0
72.5°	330.8	320.5	332.5	341.2	341.9
75°	250.4	243.9	258.6	263.5	265.3
77.5°	177.3	176.2	187.9	192.9	195.3
80°	114.7	118.4	126.9	133.8	134.8
82.5°	65.1	69.7	78.2	89.7	94.3
85°	30.2	35.0	45.2	55.1	59.4
87.5°	10.1	13.7	19.2	20.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.07	18.66	17.44	18.97	19.28	17.11	18.70	17.48	19.01	19.33
	3H	18.55	19.97	18.92	20.30	20.66	18.66	20.08	19.03	20.41	20.77
	4H	18.98	20.32	19.38	20.67	21.04	19.13	20.47	19.53	20.81	21.19
	6H	19.19	20.43	19.61	20.80	21.19	19.40	20.63	19.81	21.00	21.39
	8H	19.23	20.41	19.65	20.79	21.19	19.47	20.65	19.89	21.04	21.44
	12H	19.23	20.36	19.66	20.74	21.17	19.51	20.64	19.94	21.02	21.45
4H	2H	17.61	18.95	18.01	19.29	19.67	17.64	18.98	18.04	19.33	19.71
	3H	19.26	20.38	19.67	20.78	21.18	19.38	20.49	19.79	20.89	21.29
	4H	19.78	20.79	20.21	21.20	21.64	19.95	20.95	20.38	21.37	21.80
	6H	20.08	20.95	20.53	21.39	21.85	20.31	21.18	20.76	21.62	22.08
	8H	20.13	20.94	20.59	21.39	21.85	20.41	21.22	20.87	21.67	22.13
	12H	20.14	20.87	20.63	21.35	21.82	20.48	21.21	20.97	21.69	22.16
8H	4H	19.98	20.80	20.45	21.24	21.71	20.13	20.95	20.60	21.39	21.86
	6H	20.34	21.02	20.84	21.50	21.98	20.56	21.24	21.06	21.73	22.20
	8H	20.42	21.02	20.93	21.53	22.02	20.71	21.31	21.22	21.82	22.31
	12H	20.46	20.99	20.97	21.49	22.05	20.83	21.37	21.34	21.86	22.42
12H	4H	19.99	20.72	20.47	21.20	21.67	20.13	20.86	20.61	21.34	21.81
	6H	20.35	20.96	20.86	21.46	21.95	20.57	21.17	21.08	21.68	22.17
	8H	20.47	21.00	20.97	21.49	22.05	20.75	21.28	21.26	21.77	22.34